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APPLICATION NO. FILING DATE		ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/634,139	10/634,139 08/04/2003		Ilya V. Karpov	ITO.0551US (P16253)	5082
21906	7590	08/09/2005		EXAMINER	
TROP PRU	NER & I	HU, PC	LE, DUNG ANH		
8554 KATY	FREEWA	ΑY		T. T	
SUITE 100			ART UNIT	PAPER NUMBER	
HOUSTON,	TX 770	24		2818	
				DATE MAILED: 08/09/2009	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
		10/634,139	KARPOV, ILYA V	, (81)
	Office Action Summary	Examiner	Art Unit	
	•	DUNG A LE	2818	
	The MAILING DATE of this communicati			dress
THE I - Exter after - If the - If NO - Failur Any r earne	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICAT sistens of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communical period for reply specified above is less than thirty (30) day period for reply is specified above, the maximum statutory re to reply within the set or extended period for reply-will, be eply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	FION.  CFR 1.136(a). In no event, however, rition.  s, a reply within the statutory minimum y period will apply and will expire SIX (6 y statute, cause the application to become	nay a reply be timely filed  of thirty (30) days will be considered timely b) MONTHS from the mailing date of this or time ABANDONED (35 U.S.C. § 133).	y. ommunication.
Status				•
	Responsive to communication(s) filed or This action is <b>FINAL</b> . 2b)	n  ] This action is non-final.		
3)	Since this application is in condition for a closed in accordance with the practice u			merits is
Dispositi	on of Claims	·		
5)⊠ 6)⊠ 7)□	Claim(s) 11-32 is/are pending in the app 4a) Of the above claim(s) is/are w Claim(s) 11-30 is/are allowed. Claim(s) 31-32 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction	ithdrawn from consideratior		
Applicati	on Papers	·		
10)	The specification is objected to by the Ex The drawing(s) filed on is/are: a)[ Applicant may not request that any objection Replacement drawing sheet(s) including the The oath or declaration is objected to by	accepted or b) objecte to the drawing(s) be held in at correction is required if the dra	peyance. See 37 CFR 1.85(a). wing(s) is objected to. See 37 CF	, ,
Priority u	inder 35 U.S.C. § 119	•		
a)[	Acknowledgment is made of a claim for for All b) Some * c) None of:  1. Certified copies of the priority documents of the priority documents.  2. Certified copies of the priority documents.  3. Copies of the certified copies of the application from the International Elee the attached detailed Office action for	uments have been received uments have been received e priority documents have t Bureau (PCT Rule 17.2(a)).	in Application No  been received in this National	Stage
2) 🔲 Notice 3) 🔲 Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-9 nation Disclosure Statement(s) (PTO-1449 or PTO/ No(s)/Mail Date	48) Pape	view Summary (PTO-413) r No(s)/Mail Datee of Informal Patent Application (PTC	)-152)

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The previous office action has been withdrawn. This is new ground of rejection.

#### Set of claims 31-32

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 31- 32 are rejected under 35 USC 102 (e) as being anticipated by Johnson et al. 6791102.

Johnson et al. teaches an apparatus comprising:

a damascene structure, wherein the damascene structure includes a first electrode 608/609 over a substrate 630 and a phase change material 720 over the first electrode; and a second electrode 760 over the damascene structure (fig. 22).

Regarding claim 32, wherein the damascene structure further comprises an insulator having a pore over the substrate, wherein the first electrode680/690 and the phase change material 720 are formed in the pore.

### Reasons for Indication of Allowable Subject Matter

The following is a statement of reason for the indication of allowable subject matter:

Claims 11- 30 are considered allowable since the prior made of record and considered pertinent to the applicant's disclosure does not teach or suggest the claimed limitations. Johnson et al. (U.S. Patent No. 6791102) and Background of Invention, taken individually or in combination, do not teach the claimed invention having the phase change material fills less of the pore than the electrode.

If Applicants are aware of better art than that which has been cited, they are required to call such to attention of the examiner.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung A. Le whose telephone number is (571) 272-1784. The examiner can normally be reached on Monday-Tuesday and Thursday 6:00am- 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571) 272-1787. The central fax phone numbers for the organization where this application or proceeding is assigned are (571)272-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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